

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| In re Appli W | · · · · · · · · · · · · · · · · · · · | § Group Art Unit: Unknown § Examiner: Unknown | | | | | |
|----------------------|---|--|--|--|--|--|--|
| Serial No. | 10/691,307 | | | | | | |
| For: M. DI | Etober 22, 2003 SETHODS AND SYSTEMS FOR SETERMINING A PRESENCE OF ACRO DEFECTS AND OVERLAY F A SPECIMEN S S S S S S S S S S S S S S S S S S | in faceby certify that this correspondence is being transmitted via facsimile or deposited with the U.S. Postal Service as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on the date indicated below: 3-19-04 Damela Devik Pamela Gerik Damela Devik Pamela Gerik Damela Devik Damel | | | | | |
| | INFORMATION DISCL | OSURE STATEMENT | | | | | |
| | Commissioner for Patents on, D.C. 20231 | | | | | | |
| Sir: | | | | | | | |
| Ap | oplicant requests consideration of the re | ferences listed on the attached Form PTO-1449 (10 | | | | | |
| pages) and included. | /or the additional information identified | below in paragraph 3. Copies of the references are | | | | | |
| 1. Th | nis Information Disclosure Statement is sub- | mitted: | | | | | |
| a. | prosecution application under within 3 months of the date of an International application; before the mailing date of a first before the mailing of a first | within 3 months of the filing date of a national application other than a continued prosecution application under § 1.53(d); within 3 months of the date of entry of the national stage as set forth in § 1.491 in an International application; before the mailing date of a first Office Action on the merits; or before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114. | | | | | |
| b. | Office Action or Notice of | ragraph 1a and prior to the mailing date of a final f Allowance, and thus: the certification of d, or a fee of \$180.00 is enclosed. | | | | | |

| | | c. | after the mailing date of a final Office Action or a Notice of Allowance and prior to payment of the issue fee, and thus: the certification of paragraph 2 below is provided and a fee of \$180.00 is enclosed. |
|----|----|---------|---|
| • | 2. | It is h | ereby certified: |
| | | | that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or |
| | | | that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in § 1.56 (c) more than three months prior to the filing of the Statement. |
| | 3. | | Consideration of the following additional information (including any co-pending or abandoned U.S. applications, prior uses and/or sales, etc.) is requested: |
| | 4. | For ea | ach non-English language reference listed on the attached Form PTO-1449: |
| ÷ | | | reference is made to an English language translation submitted herewith, and/or |
| ţ. | | | reference is made to a foreign patent office search report (in the English language) submitted herewith, and/or |
| | | | reference is made to an English language translation of a foreign patent office search report submitted herewith, and/or |
| | | | reference is made to the concise explanation contained in the specification of the present application at page(s), and/or |
| | | | reference is made to the concise explanation set forth below: |
| | 5. | | Applicant also offers the following comments for the Examiner's consideration: |
| | 6. | | Also enclosed is a copy of a foreign search report citing these references. |
| | 7. | | The listed documents were brought to the attention of the Applicant(s) after payment of the issue fee in the captioned case. The documents were cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. Applicant(s) request this Information Disclosure Statement and attached Form PTO-1449 be placed in the file of the captioned application. |
| | 8. | | Applicant(s) requests that the Information Disclosure Statement and attached Form PTO-1449 and references, which are being filed before the grant of the patent and pursuant to 37 C.F.R. § 1.97(i), be placed in the file of the captioned application. |

If any required fees are missing, the Commissioner is authorized to charge said fees to Conley Rose, P.C. Deposit Account No. 03-2769/5589-02327.

Respectfully submitted,

ampingwhete

Ann Marie Mewherter Reg. No. 50,484

Agent for Applicant(s)

CONLEY ROSE, P.C. P. O. Box 684908 Austin, Texas 78768-4908 (512) 476-1400

Ü

ħ,

Date: 3-19-04

Form PTO-1449 (mod ex)

List of Patents and Publications
For Applicant's Information

Disclosure Statement (Use several sheets if necessary)

TTY. DKT. NO. 5589-02327

SERIAL NO. 10/691,307

APPLICANT: Wack et al.

GROUP: Unknown

FILING DATE: October 22, 2003

FOREIGN PATENT DOCUMENTS

| FOREIGN PATENT DOCUMENTS | | | | | | | |
|---------------------------------------|--------------|-----------------|---------|---------|-------|---------------------------------------|-----------------------|
| EXAM. INITIALS | REF. DES. | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB CLASS | TRANSLATION YES/NO |
| | B1 | 0 993 019 | 4/2000 | EP | | | |
| | B2 | 1 022 093 | 7/2000 | EP | | | |
| | B3 | 1 061 358 | 12/2000 | EP | | | |
| | B4 | 1 061 571 | 12/2000 | EP | | | |
| · · · · · · · · · · · · · · · · · · · | B5 | 1 065 567 | 1/2001 | EP | | | |
| | В6 | 1 066 925 / | 1/2001 | EP | | | |
| | B7 | 1 069 609 🗸 | 1/2001 | EP | | | |
| | B8 | 1 071 128 | 1/2001 | EP | | | |
| | B9 | 1 072 894 | 1/2001 | EP | | | |
| | B10 | 1 072 967 | 1/2001 | EP | | | |
| 5 | B11 | 1 081 489 | 3/2001 | EP | | | |
| | B12 | 1 081 741 / | 3/2001 | EP | | | - |
| | B13 | 1 081 742 / | 3/2001 | EP | | | |
| | B14 | 1 083 424 | 3/2001 | EP | | · · · · · · · · · · · · · · · · · · · | |
| | B15 | 1 093 017 / | 4/2001 | EP | | | |
| | B16 | 98/57358 / | 12/1998 | WO | | | |
| | B17 | 99/02970 | 1/1999 | WO | | | |
| | B18 | 99/03133 / | 1/1999 | WO | | | |
| | B19 | 99/23449 | 5/1999 | WO | | - | |
| | B20 | 99/25004 / | 5/1999 | WO | | | |
| | B21 | 99/31490 | 6/1999 | WO | | | |
| | B22 | 99/38002/ | 7/1999 | WO | | | |
| | B23 | 99/39183 | 8/1999 | WO | | | |
| | B24 | 99/41434 | 8/1999 | WO | | | |
| | B25 | 99/45340 | 9/1999 | WO | | | |
| | B26 | 99/54926 | 10/1999 | WO | | | |
| | B27 | 99/59200 J | 11/1999 | WO | | | |
| | B28 | 99/60614 | 11/1999 | WO | | | |

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

Form PTO-1449 (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)

ATTY. DKT. NO. 5589-02327

APPLICANT: Wack et al.

SERIAL NO. 10/691,307

GROUP: Unknown

FILING DATE: October 22, 2003

| FOREIG | V PATEN | IT DOCI | IMENTS |
|--------|---------|---------|---------------|
| | | | |

| EXAM. INITIALS | REF. DES. | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB CLASS | TRANSLATION YES/NO |
|---|--------------|-----------------|---------|---------|-------|--------------|---------------------------------------|
| | B29 | 99/65056 | 12/1999 | WO | | | |
| | B30 | 99/67626 | 12/1999 | WO | | | |
| · , · · · · · · · · · · · · · · · · · · | B31 | 00/00873 | 1/2000 | WO | | | |
| <u>-</u> | B32 | 00/00874 | 1/2000 | WO | | | |
| | B33 | 00/02037 | 1/2000 | WO | | · | |
| | B34 | 00/03234 | 1/2000 | WO | | ····· | |
| | B35 | 00/03421 | 1/2000 | WO | | | |
| | B36 | 00/07226 | 2/2000 | WO | | | |
| | B37 | 00/15870 | 3/2000 | WO | | | |
| r | B38 | 00/17907 | 3/2000 | WO | | | |
| | B39 | 00/18543 | 4/2000 | WO | | | |
| - 8 | B40 | 00/26609 | 5/2000 | WO | | | |
| | B41 | 00/26613 | 5/2000 | WO | | | • |
| | B42 | 00/26646 | 5/2000 | WO | | | |
| | B43 | 00/28577 | 5/2000 | WO | | | |
| | B44 | 00/60657 | 10/2000 | WO | | | |
| | B45 | 00/68673 | 11/2000 | WO | | | |
| | B46 | 00/70332 | 11/2000 | WO | | | |
| | B47 | 00/70646 | 11/2000 | WO | | | |
| | B48 | 00/77500 | 12/2000 | WO | | | |
| | B49 | 01/03145 | 1/2001 | WO | | | |
| | B50 | 01/09566 | 2/2001 | WO | | | |
| | B51 | 01/13098 | 2/2001 | WO | | | |
| | B52 | 01/14925 | 3/2001 | WO | | | |
| | C11 | 99/59182 | 11/1999 | WO | | **** | |
| | C12 | 00/02229 | 1/2000 | WO | | · · · · · | - |
| | D32 | 02/25723 | 3/2002 | WO | | | |
| | D33 | 02/069390 | 9/2002 | WO | | | · · · · · · · · · · · · · · · · · · · |

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

| Form PTO-1449 (modified) | | ATTY. DKT. NO. 5589-02327 | | SER | SERIAL NO. 10/691,307 | | | | | |
|---|------|--|--|---|---------------------------------------|------------------------------|---------------------------------------|--|--|--|
| List of Patents and Publications | | | | | | | | | | |
| For Applicant's Information | | | APPLICANT: Wack et al. | | GRO | GROUP: Unknown | | | | |
| Disclosure Statement | | | | | | | | | | |
| (Use several sheets if necessary) FILING DATE: October 22, 2003 | | | | | | | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | | | |
| EXAM. | REF. | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB | TRANSLATION | | | |
| INITIALS | DES. | | | | | CLASS | YES/NO | | | |
| | | | | | | | | | | |
| | | OTHER ART (1 | ncluding Autho | or, Title, Date, Pertinent P | ages, Etc.) | | | | | |
| | D34 | McNeil et al., "Scatteromet December 1992, pp. 16-22. | | croelectronics Processing," N | Aicrolithogra | phy World, | November/ | | | |
| | D35 | Raymond et al., "Metrology of subwavelength photoresist gratings using optical scatterometry," J. Vac. Sci. Technol. B 13(4), Jul/Aug 1995, pp. 1484-1495. | | | | | | | | |
| | D36 | Wittekoek et al., "In-proces ASM-L Wafer Stepper," S | s Image Detectin PIE Vol. 1674 Op | g Technique for Determination of the graphy | on of Overla V (1992), p | y, and Image pp. 594-608. | e Quality for | | | |
| | | | | | | | • | | | |
| | | | | | | | | | | |
| r | | | | ·- · · · · · · · · · · · · · · · · · · | | | | | | |
| , | | | - | | | | | | | |
| Ÿ | | | | | | | | | | |
| | | | ······································ | | ·· | | | | | |
| | | | | | | | | | | |
| | | ·. | | | · · · · · · · · · · · · · · · · · · · | | · · · · · · · · · · · · · · · · · · · | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | · | | | | | | | |
| · | | | | | | | | | | |
| | | | ··· | | | | | | | |
| | | | | | | | , | | | |
| · | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | - | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.